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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/065,771

11/18/2002

Sreenath Mambakkam

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02/10/2005

BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD
SEVENTH FLOOR
LOS ANGELES, CA 90025-1030

EXAMINER

FUREMAN, JARED

ART UNIT

PAPER NUMBER

2876

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/065,771

Applicant(s)

MAMBAKKAM ET AL.

Examiner

Jared J. Fureman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6,8-15 and 17-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6,8-15 and 17-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 November 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/26/2004 has been entered. Claims 1-6, 8-15 and 17-21 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 4, 6, 10, 12, 13, 15, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takase et al (US 6,381,513) in view of Pua et al (US 2002/0178307 A1).

Takase et al teaches a memory card interface apparatus comprising: a plurality of memory card interfaces (necessarily present in card machine 224), comprising a first subset to interface with a memory card of a first type, wherein the memory cards of the first type are accessible in parallel (the plurality of memory card interfaces in card machine 224 are accessible in parallel by interface 223, so that interface 223 can read, erase, and write data to the memory cards in parallel) (see figure 16 and column 13,

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lines 9-18). Takase et al also teaches a system comprising: a controller circuit (228); a bus coupled to the controller circuit (for example, the bus between memory cards 1 and memory card interface 223 is coupled to the controller circuit 228 via the memory card interface 223, see figure 16); a plurality of memory card interfaces (necessarily present in card machine 224), comprising a first subset to interface with a memory card of a first type, wherein the memory cards of the first type are accessible in parallel (the plurality of memory card interfaces in card machine 224 are accessible in parallel by interface 223, so that interface 223 can read, erase, and write data to the memory cards in parallel) (see figure 16 and column 13, lines 9-18). Takase et al also teaches a method comprising: providing access to a plurality of memory card interfaces (necessarily present in card machine 224), comprising a first subset to interface with a memory card of a first type; and selectively operating (selectively operating the memory cards to be read from, erased, or written to, for example) the first subset of memory cards to provide access to the memory cards of the first type in parallel (the plurality of memory card interfaces in card machine 224 are accessible in parallel by interface 223, so that interface 223 can read, erase, and write data to the memory cards in parallel) (see figure 16 and column 13, lines 9-18).

Takase et al fails to specifically teach a second subset of memory card interfaces configured to interface with a memory card of a second type wherein the first and second subset of memory card interfaces are accessible in parallel; at least one of the memory card interfaces includes an indicator identifying a status of an operation for a respective memory reader interface; wherein the indicator includes a light indicating

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data is being written to a card in the respective memory card interface; wherein mechanical pins, of at least one of the plurality of memory card interfaces, are inserted directly into a backbone of the apparatus.

Pua et al teaches a memory card interface apparatus (adapter 10), system, and method comprising: a plurality of memory card interfaces (30), with at least a subset of the plurality of memory card interfaces configured to interface with a memory card of a first type (CompactFlash, Smart Media, SDIMMC, Memory Stick, etc.), wherein at least one of the memory card interfaces includes an indicator (35) identifying a status of an operation for a respective memory reader interface; wherein the indicator includes a light (the indicator 35 may be an LED) indicating data is being written to a card in the respective memory card interface (the indicators 35 indicate when a card is being accessed); wherein mechanical pins, of at least one of the plurality of memory card interfaces, are inserted directly into a backbone of the apparatus (in that pins of a memory card will connect to pins of the interfaces); wherein a first subset (one of the interfaces 30, for example) of the plurality of memory card interfaces are configured to interface with a memory card of a first type and a second subset (a different one of the interfaces 30, for example) of the plurality of memory card interfaces are configured to interface with a memory card of a second type (interfaces are provided for a plurality of types of memory cards, such as CompactFlash, Smart Media, SDIMMC, Memory Stick, etc.) (see figure 1, paragraphs 22-32, and 37-39).

In view of Pua et al's teachings, it would have been obvious to one of ordinary skill in the art at the time of the invention to include, with the apparatus, system and

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method as taught by Takase et al, wherein a second subset of memory card interfaces configured to interface with a memory card of a second type wherein the first and second subset of memory card interfaces are accessible in parallel; at least one of the memory card interfaces includes an indicator identifying a status of an operation for a respective memory reader interface; wherein the indicator includes a light indicating data is being written to a card in the respective memory card interface; wherein mechanical pins, of at least one of the plurality of memory card interfaces, are inserted directly into a backbone of the apparatus, in order to provide a visual indication of the status of memory card access and allow the use of different types of memory cards, thereby increasing the appeal of the apparatus, system and method to users who require the use of various types of memory cards.

4. Claims 5 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takase et al as modified by Pua et al in view of the admitted prior art.

The teachings of Takase et al as modified by Pua et al have been discussed above.

Takase et al as modified by Pua et al fails to specifically teach wherein at least one of the memory card interfaces is configured to interface with a Write Once Read Many (WORM) memory card.

The admitted prior art teaches that WORM memory cards may be used to create archives of media files (see paragraph 7 of the specification).

In view of the admitted prior art, it would have been obvious to one of ordinary skill in the art at the time of the invention to include, with the apparatus, system, and

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method as taught by Takase et al as modified by Pua et al, wherein at least one of the memory card interfaces is configured to interface with a WORM memory card, in order to allow users to create archives of media files.

5. Claims 8 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takase et al as modified by Pua et al in view of Itou et al (US 6,010,066).

The teachings of Takase et al as modified by Pua et al have been discussed above.

Takase et al as modified by Pua et al fails to specifically teach wherein the apparatus includes a text display, wherein text on the display is manipulated using Simple Display Device commands.

Itou et al teaches a memory card interface apparatus and system (see figure 1), comprising a plurality of memory card interfaces (for cards 100, 110, and 120), a text display device (80), the text display device being a simple display device (in that the display device 80 is a small LCD for displaying text) (see figure 1 and column 4 lines 15-56).

In view of Itou et al's teachings, it would have been obvious to one of ordinary skill in the art at the time of the invention to include, with the apparatus, system, and method as taught by Takase et al as modified by Pua et al, wherein the apparatus includes a text display, wherein text on the display is manipulated using Simple Display Device commands, in order to allow the user to view any text stored in a memory card, and thus, verify the contents of the memory card.

6. Claims 2, 11, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takase et al as modified by Pua et al in view of Le et al (US 2003/0095386 A1).

The teachings of Takase et al as modified by Pua et al have been discussed above.

Takase et al as modified by Pua et al fails to specifically teach wherein at least one of the memory card interfaces is configured to read a plurality of different memory card types.

Le et al teaches a memory card interface apparatus (10), system, and method including a memory card interface (slot 13) that is configured to read a plurality of different memory card types (the slot 13 can accommodate any one of Smart Media memory card, Memory Stick flash memory, Secure Digital memory card, and MultiMedia flash memory cards) (see figures 1-5 and paragraphs 25 and 26).

In view of Le et al's teachings, it would have been obvious to one of ordinary skill in the art at the time of the invention to include, with the apparatus, system, and method as taught by Takase et al as modified by Pua et al, wherein at least one of the memory card interfaces is configured to read a plurality of different memory card types, in order to eliminate restrictions as to which memory card must be placed into which interface, thus providing a more flexible system.

7. Claims 9 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takase et al as modified by Pua et al and Itou et al further in view of Le et al.

The teachings of Takase et al as modified by Pua et al and Itou et al have been discussed above.

Takase et al as modified by Pua et al and Itou et al fails to specifically teach wherein the text on the display is manipulated using Small Computer System Interface commands.

The teachings of Le et al have been discussed above. Le et al also teaches the use of the Small Computer Systems Interface (SCSI) (see paragraph 23).

In view of Le et al's teachings, it would have been obvious to one of ordinary skill in the art at the time of the invention to include, with the apparatus, system, and method as taught by Takase et al as modified by Pua et al and Itou et al, wherein the text on the display is manipulated using Small Computer System Interface commands, in order to provide compatibility with other devices using the Small Computer System Interface.

Response to Arguments

8. Applicant's arguments filed 11/26/2004 have been fully considered but they are not persuasive.

In response to Applicant's argument that the combination of Takase et al and Pua et al would provide a system in which there would be parallel access for memory cards of the same type and serial access for memory cards of different types (see page 5, of the amendment filed on 11/26/2004), Takase et al teaches a plurality of memory card interfaces which are operated in parallel to read, erase and write to the memory cards in parallel (see column 13, lines 9-18, of Takase et al). Takase et al teaches that, since the memory cards are operated in parallel, prompt service is provided, and it is unnecessary to write information to the memory cards individually (see column 18, lines 3-16, of Takase et al). Pua et al teaches that various types of memory cards have been

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developed (see paragraph 22) for use with different devices or applications. From these teachings, it is clear to one of ordinary skill in the art at the time of the invention that users desire/require the use of different types of memory cards. Thus, one of ordinary skill in the art at the time of the invention would have been motivated to combine the teachings of Pua et al with Takesa et al in order to provide the ability to interface with a plurality of types of memory cards as desired/required by users, thereby increasing the versatility and appeal of the system to a greater number of users. Given the specific advantages of parallel access to a plurality of memory cards, as taught by Takase et al, when combining the teachings of Pua et al with the teachings of Takase et al, one of ordinary skill in the art at the time of the invention would have been motivated to retain the parallel access feature, as taught by Takase et al, in order to maintain prompt service to users. Thus, the combined teachings of Takase et al and Pua et al suggests to one of ordinary skill in the art at the time of the invention a plurality of memory card interfaces comprising a first subset to interface with a memory card of a first type and a second subset to interface with a memory card of a second type, wherein the memory card of the first type and the memory card of the second type are accessible in parallel.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jared J. Fureman whose telephone number is (571) 272-2391. The examiner can normally be reached on 7:00 am - 4:30 PM M-T, and every other Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jared J. Fureman
Jared J. Fureman
Examiner
Art Unit 2876

February 7, 2005